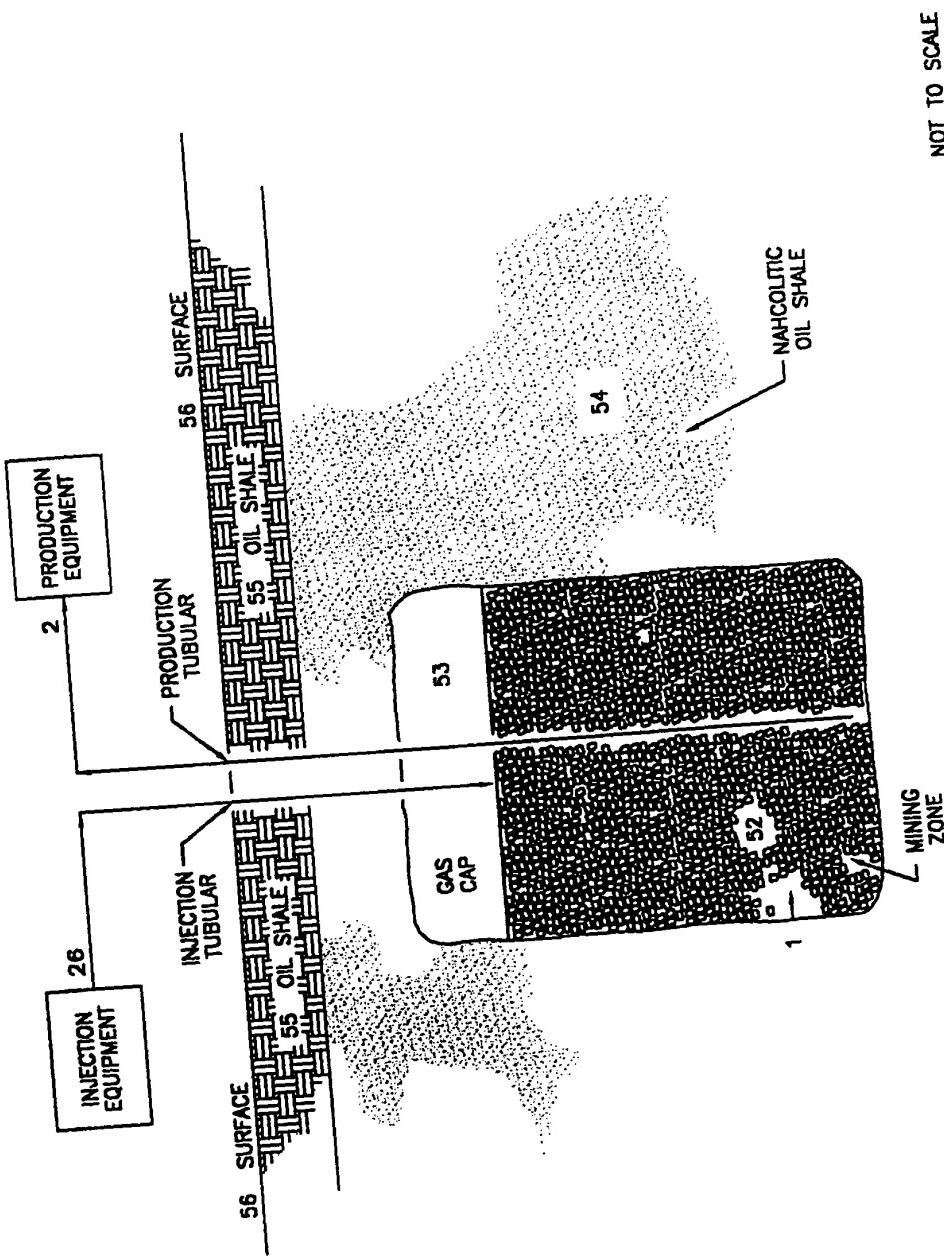


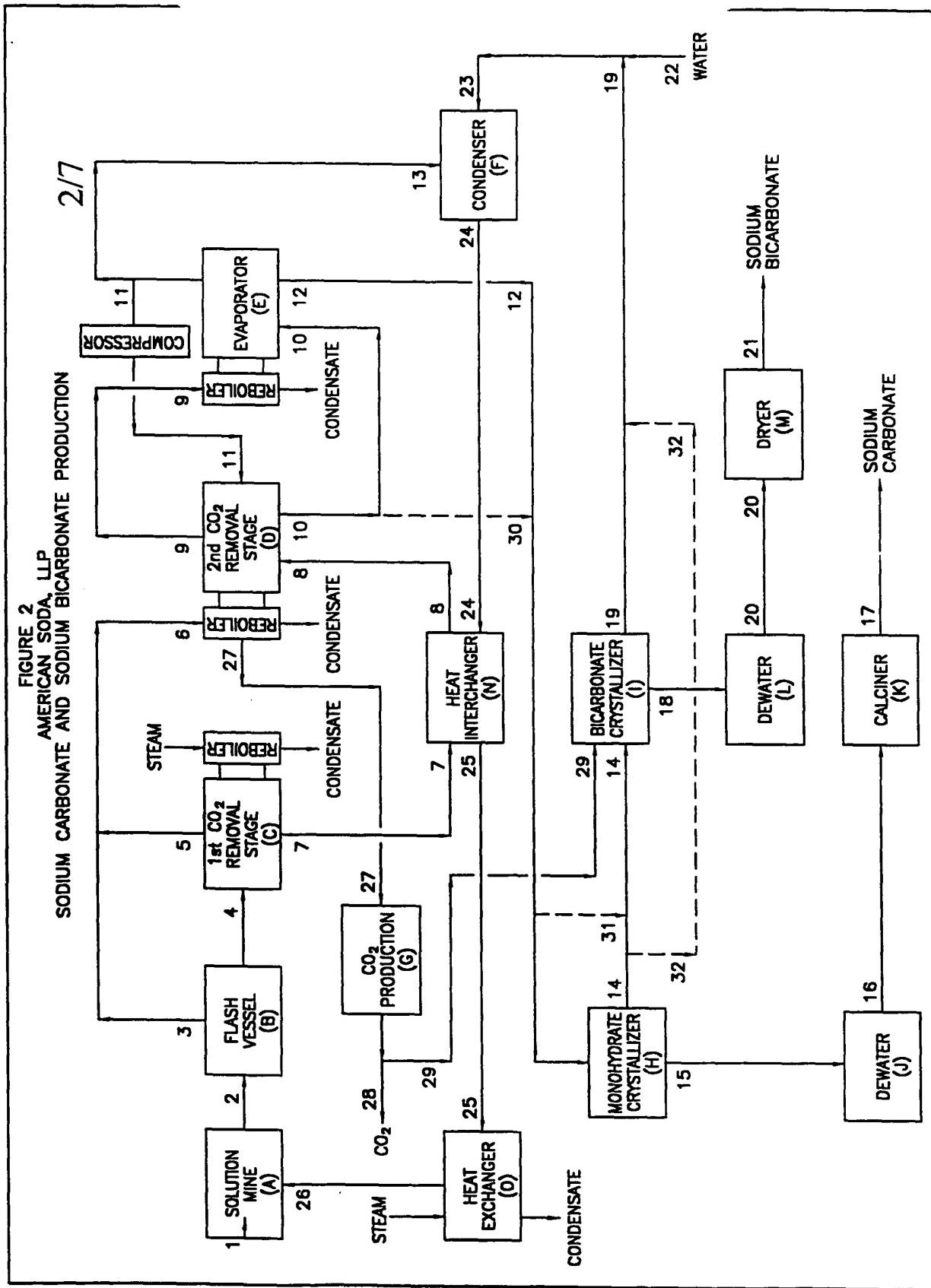
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FIGURE 1  
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SOLUTION MINING



NOT TO SCALE

**FIGURE 2**  
**AMERICAN SODA, LLP**  
**SODIUM CARBONATE AND SODIUM BICARBONATE PRODUCTION**



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WELL CROSS SECTIONS

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FIGURE 3A  
CROSS SECTION DETAIL A-A'

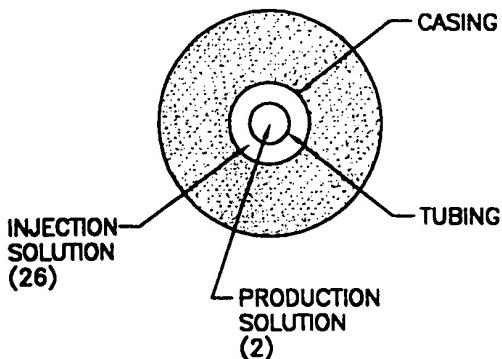


FIGURE 3B  
CROSS SECTION DETAIL A-A'

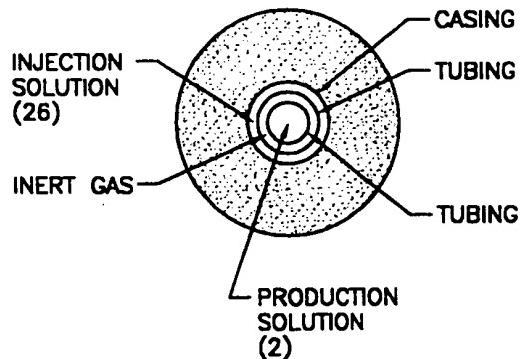


FIGURE 3C  
CROSS SECTION DETAIL A-A'

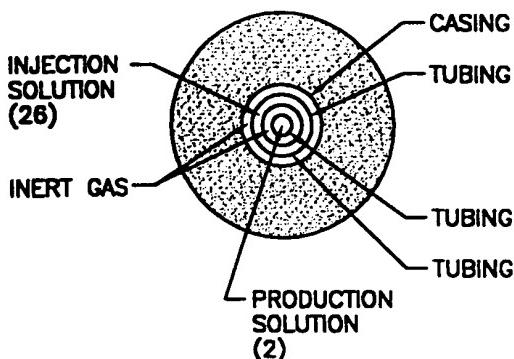
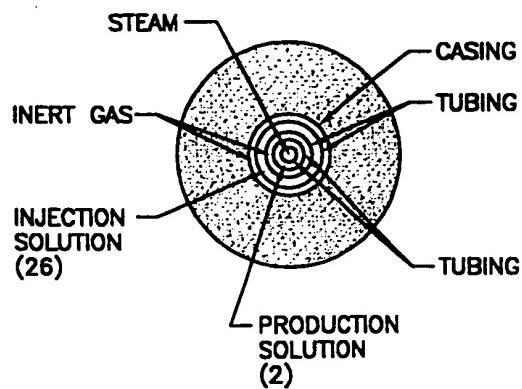


FIGURE 3D  
CROSS SECTION DETAIL A-A'



NOTE: SEE FIGURE 3E FOR VERTICAL VIEW

NOT TO SCALE

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FIGURE 3E  
AMERICAN SODA, LLP  
EXAMPLE 1

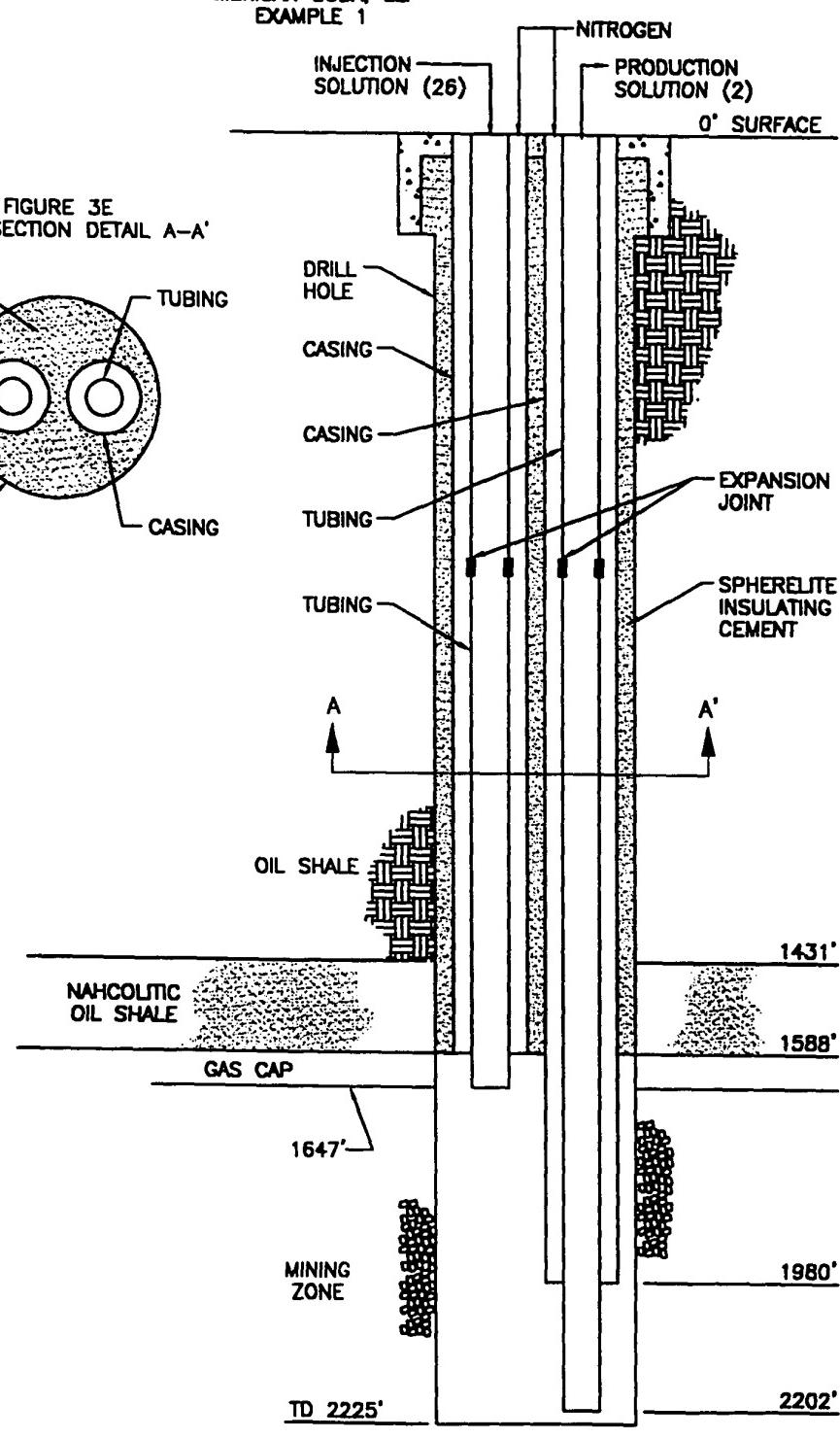
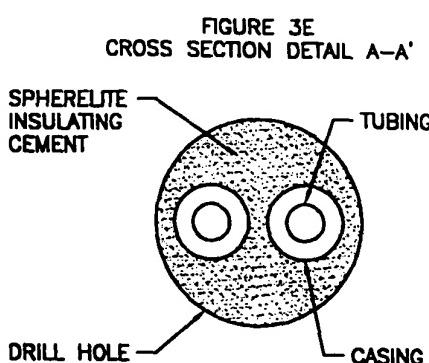
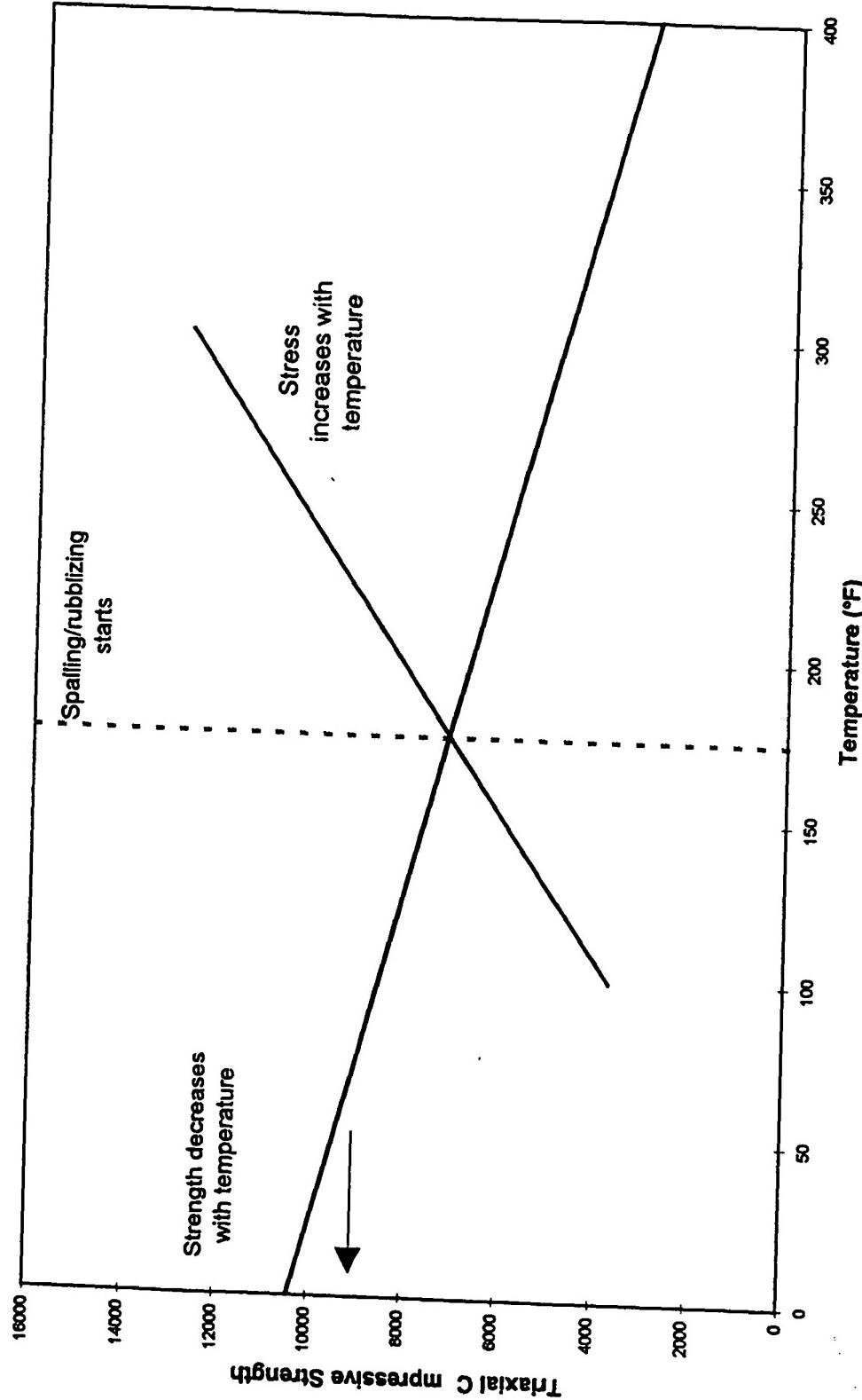


FIGURE 4  
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**STRENGTH AND STRESS OF NAHCOLITIC OIL SHALE WITH TEMPERATURE**



**FIGURE 5**  
**AMERICAN SODA, LLP**

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**SOLUBILITY OF SODIUM BICARBONATE  
versus TEMPERATURE**

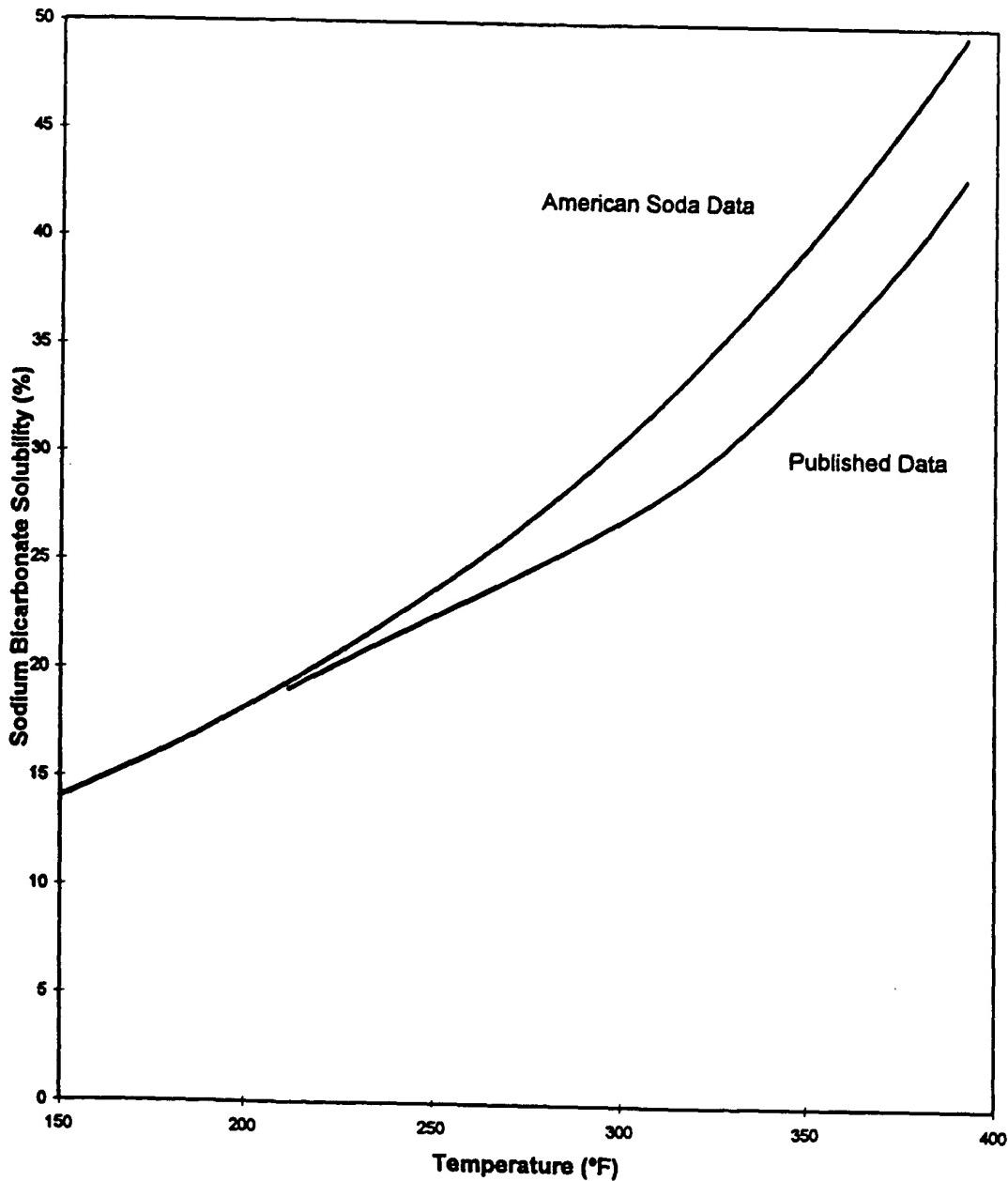


FIGURE 6  
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**PRESSURE REQUIRED TO PREVENT DECOMPOSITION OF SATURATED  
SODIUM BICARBONATE SOLUTION**

